	Application No.	Applicant(s)
Notice of Allowability	09/992,624	HIEW ET AL.
	Examiner	Art Unit	
	Fred Ferris	2128	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4 November 2005*.

2. ☒ The allowed claim(s) is/are *1-4 and 6-17*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 12022005.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   *Claims 1-40 have been presented for examination based on applicant's*

amendment filed 4 November 2005. Applicants have now cancelled claims 5 and 18-

40. Claims 1-4, and 6-17 were previously allowed over the prior art of record.

Response to Arguments

2.   *Regarding applicants response to 35 USC 101 and 103(a) rejection: The*

previous 35 USC 101 and 103(a) rejections have now been rendered moot in view of

applicant's cancellation of 5 and 18-40. Claims 1-4 and 6-17 remain pending in this

case and were previously allowed over the prior art. Accordingly, the case is now in

condition for allowance pending submission of formal drawings.

Drawings

3.   *Applicant's drawings submitted on 1 November 2002 are informal and were*

therefore acceptable for examination purposes only. New formal drawings are now

required since the case has been placed in condition for allowance.

Allowable Subject Matter

4.   *Claims 1-4, and 6-17 are allowed over the prior art of record.*

The following is an examiner's statement of reasons for allowance:

Applicants are disclosing a software development environment where a user can

simultaneously view a graphical representation and a text representation of source code

including views that are synchronized such that modifications to one view are automatically reflected in the other view, including the ability to detect the particular language of the source code by applying rules. This has been disclosed in the prior art of record.

While these elements are individually disclosed in the prior art, the prior art of record does not meet the conditions as suggested in MPEP section 2132, namely:

*"The identical invention must be shown in as complete detail as is contained in the ... claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). The elements must be arranged as required by the claim, but this is not an **ipsissimis verbis** test, i.e., identity of terminology is not required. **In re Bond**, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990)."*

In particular, the prior art of record does not disclose the specific elements including a document manager (Fig. 2-60) retrieving source code of a data manipulation language type, an editor with means for user editing of retrieved code (Figs. 3-15), a parser layer (Fig. 2-140) detecting data manipulation language type and activating applicable rules, and a dynamically linked visualizer (Figs. 17-21), all cooperating to detect one of a plurality of data manipulation language types and automatically reflect a graphical representation of the source code flows using rules and applicable logic as now recited in independent claim 1. (See: Figure 2, specification page 11, line 2 to page 17, line 17 for example) Data Manipulation Language (DML) is used to retrieve, insert and modify database information in a relational database, such as the INSERT command in SQL.

The prior art of record discloses elements of the claimed invention as follows:

U.S. Patent 6,851,107 issued to Coad et al: teaches a software development tool where a developer (user) can simultaneously view a graphical representation and a text representation of source code which are synchronized (i.e. dynamically linked) such that modifications to one view are automatically reflected in the other view (i.e. edits to the graphical flow are automatically reflected in the source code (text) view and visa versa). Coad further discloses the ability to detect the particular language of the source code and applying rules. However, Coad does not explicitly disclose the specific arrangement of elements including a document manager, editor, parser layer, or visulizer as noted above, or that the detected language is a data manipulation language.

US Patent Application 2003/0056192 A1 issued to Burgess: teaches a system and method for analysis of source code in a relational database (SQL) where a developer (user) can view a graphical representation of code flow inclusive of a visualizer and parser but does not explicitly disclose the specific arrangement of elements including a document manager, editor with means for user editing of retrieved code (See: specification Figs. 3-15) synchronized such that modifications to one view are automatically reflected in the other view as previously cited above.

"An Analysis of Geometric Modeling in Database Systems", Kemper et al: teaches software program analysis inclusive of data manipulation languages but again does not explicitly disclose the specific arrangement of elements including a document manager, editor, parser layer, or visulizer as previously cited above.
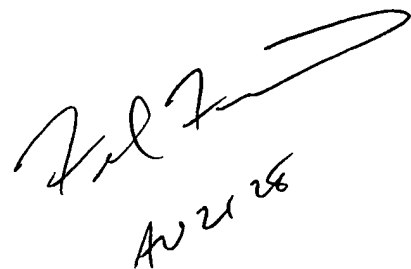
The features noted above relating to the specific arrangement of integrated development system elements, as now recited in independent claim 1 renders the claimed invention non-obvious over the prior art of record. Dependent claims 3-4, and 6-17 are deemed allowable as being dependent from independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Ferris whose telephone number is 571-272-3778 and whose normal working hours are 8:30am to 5:00pm Monday to Friday. Any inquiry of a general nature relating to the status of this application should be directed to the group receptionist whose telephone number is 571-272-3700. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached at 571-272-2279. The Official Fax Number is: (703) 872-9306

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